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File: DWPI

Jul 31, 2003

DERWENT-ACC-NO: 2000-550216

DERWENT-WEEK: 200350

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TITLE: Thickened correctable ink, useful in e.g. roller ball pen without regulator, is based on mixture of water, polar solvent, thickener and dye changing color in presence of alkali, acid, oxidant, reducing agent and/or (de)complexing agent

INVENTOR: HAISCH, P

PATENT-ASSIGNEE:

ASSIGNEE

CODE

STS SCHREIBGERAETE TECH SCHWARZWALD GMBH

STSSN

PRIORITY-DATA: 1999DE-1003248 (January 28, 1999)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> DE 19903248 C2	July 31, 2003		000	C09D011/16
<input type="checkbox"/> DE 19903248 A1	August 10, 2000		005	C09D011/16

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19903248C2	January 28, 1999	1999DE-1003248	
DE 19903248A1	January 28, 1999	1999DE-1003248	

INT-CL (IPC): [C09 D 11/16](#)

ABSTRACTED-PUB-NO: DE 19903248A

BASIC-ABSTRACT:

NOVELTY - Ink with relatively high viscosity is based on a mixture of water, polar solvent, thickener and a dye that undergoes a color change caused by a pH increasing or reducing and/or oxidizing or reducing and/or complexing or decomplexing substance or mixture.

USE - The ink is useful in fountain pens, gel pens and especially roller ball pens, e.g. for use in schools and offices.

ADVANTAGE - The thickener gives a viscous ink, which is converted to a sol of low viscosity when shear is applied, so that the pen needs no complicated regulator

system. Corrections can be made e.g. with ink eradicator, the ink flow is constant and the pen can be left open for longer than usual.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THICKEN CORRECT INK USEFUL ROLL BALL PEN REGULATE BASED MIXTURE WATER
POLE SOLVENT THICKEN DYE CHANGE COLOUR PRESENCE ALKALI ACID OXIDANT REDUCE AGENT DE
COMPLEX AGENT

DERWENT-CLASS: A97 E24 G02

CPI-CODES: A12-D05B; E25-D; G02-A04A;

CHEMICAL-CODES:

Chemical Indexing M4 *01*

Fragmentation Code

C106 G011 G012 G013 G019 G100 H1 H102 H143 K0
K4 K431 K499 L7 L730 M1 M121 M129 M132 M143
M149 M150 M280 M311 M321 M343 M414 M510 M520 M533
M540 M630 M781 M904 M905 Q332 R021 R023 R024 W003
W033 W321 W323 W336

Markush Compounds

200023-13601-K 200023-13601-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P0000 Polymer Index [1.2] 018 ; ND01 ; Q9999 Q8242
Q8173 ; Q9999 Q9347

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-164329

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Sep 14, 2001

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PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2001247807 A	September 14, 2001		012	C09D011/18

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001247807A	August 21, 2000	2000JP-0249544	

INT-CL (IPC) : C09 D 11/18

ABSTRACTED-PUB-NO: JP2001247807A
BASIC-ABSTRACT:

NOVELTY - An ink composition for aqueous ballpoint pen contains a leuco dye, color developer and color extinction agent written matter by which can be erased by applying solvent or heating, without sedimentation of colorant keeping satisfied density of written line and showing color extinction effect.

DETAILED DESCRIPTION - An ink composition for aqueous ballpoint pen written matter, which can be erased by applying solvent and/or heating, contains a microcapsule containing leuco dye, color developer and color extinction agent; or a fine particle containing leuco dye, color developer and color extinction agent, resin, and at least water and gelling agent.

The composition has an ink viscosity at a shear rate of 150 s⁻¹ at 25 deg. C of 20-300 mPa and non-Newtonian viscosity index of 0.10-0.65 wherein the non-Newtonian viscosity index is n in the equation: $\eta = kD^{n-1}$

n = 0-1; eta = viscosity (Pa);

D = share rate (s-1); and

k = non-Newtonian viscosity coefficient.

USE - The ink composition is useful in writing tools such as ballpoint pens, etc (claimed).

ADVANTAGE - Written matter by the ink composition is erased by solvent or heating (claimed).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: INK COMPOSITION AQUEOUS PEN CONTAIN LEUCO DYE DEVELOP EXTINCTION AGENT
CAN ERASE SOLVENT HEAT SEDIMENT KEEP SATISFY DENSITY WRITING LINE

DERWENT-CLASS: A13 A84 E24 G02

CPI-CODES: A12-D05B; E05-A; E10-C04H; E10-E02D5; E25; G02-A04A;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

G016 G100 H4 H402 H442 H8 J5 J581 M210 M211

M262 M281 M320 M414 M510 M520 M531 M540 M782 M904

M905 Q130 Q332 R023

Specfic Compounds

A609KK A609KM

Chemical Indexing M3 *02*

Fragmentation Code

A119 A960 C710 H7 H721 J0 J011 J1 J171 M225

M231 M262 M281 M320 M411 M510 M520 M530 M540 M630

M782 M904 M905 M910 Q130 Q332 R023

Specfic Compounds

05310K 05310M

Registry Numbers

0954U

Chemical Indexing M4 *03*

Fragmentation Code

M417 M782 M904 M905 Q130 Q332 R023 R032 R036 W004

W334

Markush Compounds

200054-35501-K 200054-35501-M

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0954U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R01863*R D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29

F26 F34 H0293 P0599 G3623 Polymer Index [1.2] 018 ; R00708 G0102 G0022 D01 D02 D12

D10 D19 D18 D31 D51 D53 D58 D76 D88 ; H0000 ; P1741 ; P1752 Polymer Index [1.3]

018 ; ND01 ; Q9999 Q8242 Q8173

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-023580

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